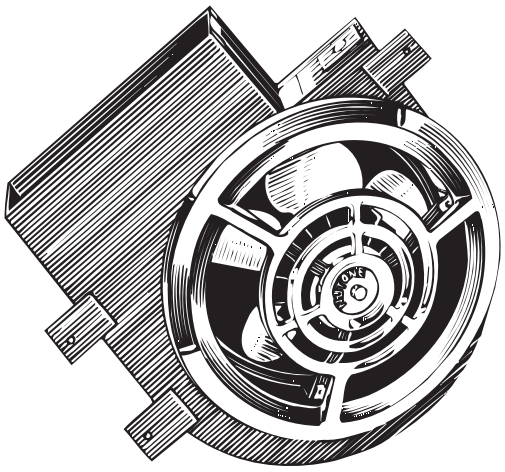
Ceiling or Inside Wall Exhaust Fan

MODEL: 8510

DESCRIPTION

- Ventilates large kitchens up to 150 sq. ft. or other rooms up to 375 sq. ft.
- Discharges through a 3¼" x 10" duct.
- Installs in ceilings or fits 2" x 4" walls; welded-on tabs fit 16" O.C. ceiling joists or walls studs.
- Housing with duct collar is 14 3/16" x 16 3/16" x 3 3/16". Built-in backdraft damper.
- Motor with one piece aluminum blades screws in. Motor 'floats' on cushions for quiet operation.
- Silver anodized aluminum grille resists rust and corrosion.
- Housing has plug-in electrical receptacle.
- Three-point suspension brackets for easy mounting of plug-in fan motor assembly.
- Refer to NuTone's catalog for a complete line of accessories to effectively adapt this Exhaust Fan to your construction requirements.



8510

DESIGN FEATURES

Air Delivery:	300 CFM.
Sound Level:	7.5 Sones.
Dimensions:	**Housing:** 14 3/16 x 16 3/16 x 3 7/16
Material & Finish:	**Housing:** Galvanized steel. **Grille:** 13½ diameter metal, silver anodized.
Motor:	Plug-in, thermally protected
Fan Blade:	One-piece, aluminum, 5-leaf,
Duct Size:	3¼" x 10".
Electrical Rating:	120v, 60Hz, 2.0Amp

INSTALLATION

- The housing is installed in ceiling or 2" x 4" wall during the rough-in stage of construction. Motor, Blade Assembly and Grille are installed when other electrical fixtures are installed.
- Knockouts in prewired outlet box permit connecting house leads from above or the end of the housing. Motor assembly has three (3) brackets that fasten into the ends of three (3) mounting studs on the housing.
- Install at least 5 feet above floor or install above counter or major appliance.
- Installation Instructions are included with each unit.

ARCHITECT'S SPECIFICATIONS

Exhaust Fan shall be Model 8510 as manufactured by NuTone according to listed specifications. Fan shall ventilate at 300 CFM at 0.10" S.P. at a sound level of 7.5 Sones. Housing shall be 14 3/16" x 16 3/16" x 3 7/16" deep and connect to 3¼" X 10" duct.

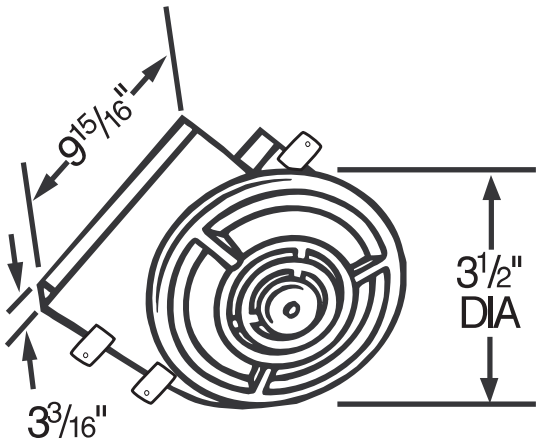
CERTIFIED TEST DATA

HVI-2100 CERTIFIED RATINGS comply with new testing technologies and procedures prescribed by the Home Ventilating Institute, for off-the-shelf products, as they are available to consumers. Product performance is rated at 0.1 in. static pressure, based on tests conducted in AMCA's state-of-the-art test laboratory. Sones are a measure of humanly-perceived loudness, based on laboratory measurements. This NuTone model is listed by Underwriters' Laboratories Inc.

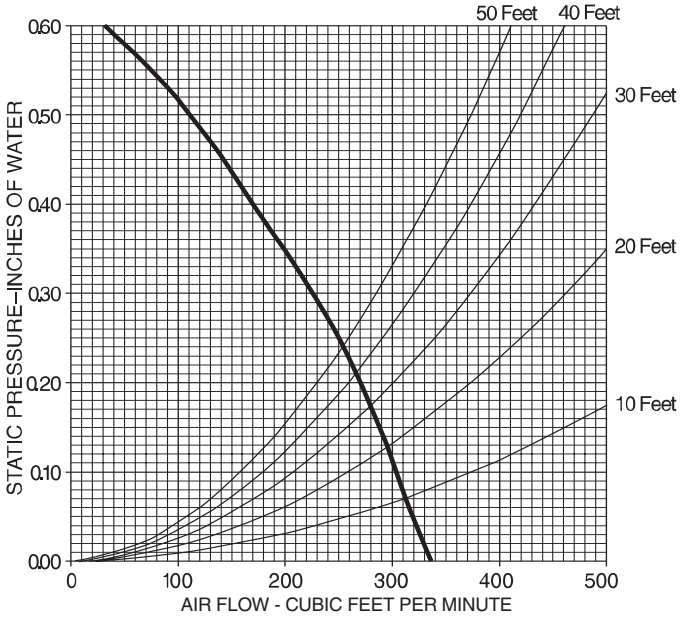
The air delivery of a ventilating system may be determined by:

1. Determine the equivalent duct length for each 90 degree elbow by adding one foot of duct length for each inch of duct diameter, i.e., a 4 inch diameter duct elbow equals 4 feet equivalent duct length and an 8 inch diameter duct elbow equals 8 feet equivalent duct length.
2. Add the total straight length of duct and the equivalent length for each elbow to obtain the total equivalent duct length.
3. Locate the intersection of the fan performance curve and the total equivalent duct length curve and draw a vertical line down to the CFM scale and read the system air performance.

DIMENSIONS



AIR PERFORMANCE CURVE
(6 In. or 3¼" X 10" Duct)



STATIC PRESSURE (INCHES OF WATER)	0.05	0.1	.125	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.66
Air flow (CFM)	319	305	298	290	273	251	232	206	180	152	0

Product specifications subject to change without notice.

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